ARAT Bulletin

"Serving the Army Reprogramming Community Since 1994"

Volume 4, Issue 1 **May 1997**

Warfighter Support-Priority One

Logistics Assistance Representatives Can Help Army EWO Officers Be Successful

There are many resources available to help the Electronic Warfare Officer (EWO) at Army Aviation units to be successful. The Communications-Electronics Command (CECOM) Logistics Assistance Representative (LAR) is one of these resources. Working for CECOM's Logistics Readiness Center (LRC), LARs are on station worldwide supporting communications and electronics systems, including Aircraft Survivability Equipment (ASE) and EW systems. They are often the first contact for problems and issues and can especially contribute to solutions for ASE and EW systems' problems and issues.

Students attending the ASE/EWO Course at Fort Rucker, AL, are encouraged to contact their closest CECOM LAR upon returning to their units and to consider the LAR as a resource to help solve logistics and maintenance problems associated with ASE and EW systems. *(cont. p. 3)*

In This Issue

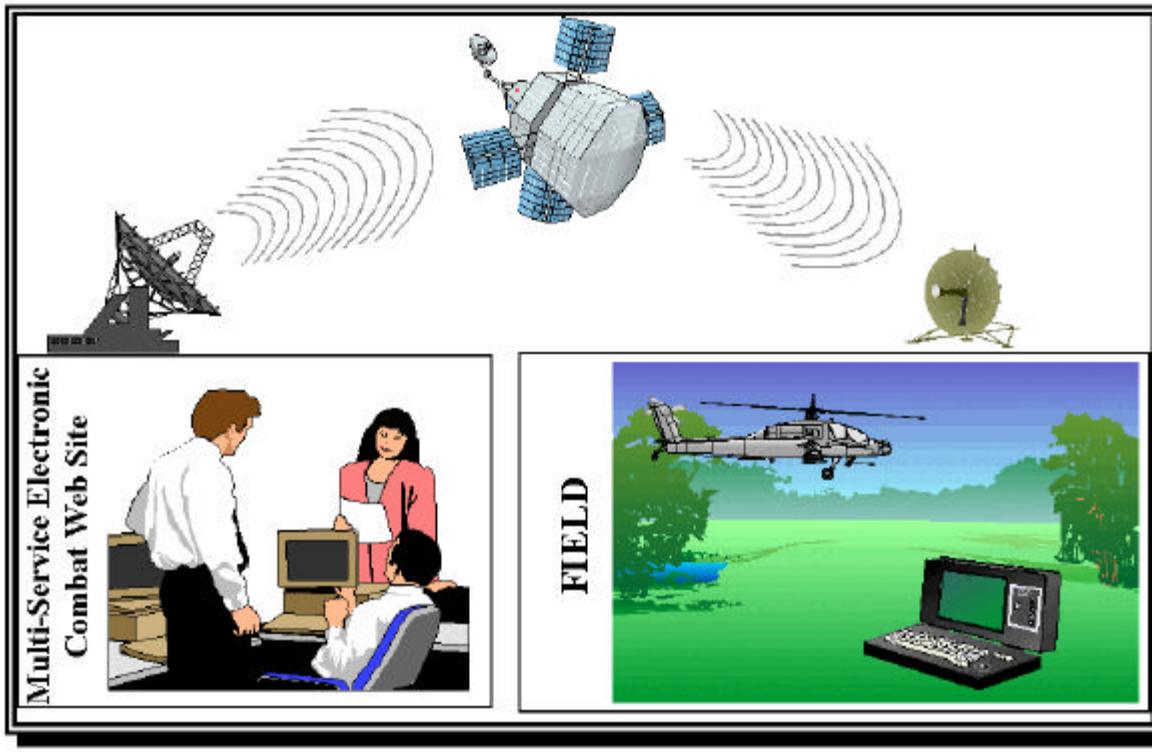
From the Project Officer's Desk

Written by Mr. Joseph Ingrao, ARAT Project Officer

[JS1]

Have you ever been assigned to a development project or program in the middle of its life?? Have you had to live with the designs and decisions made prior to your involvement with the program?? Most people I have worked with can answer with a resounding ***YES***. I am happy to let you in on the ground floor of a great development effort, one in which you can see your personal work experience incorporated into a lasting entity for Information Warfare. It is going to be named the Multi-Service Electronic Combat Web Site. This Secure Web Site is meant to support our Warfighter by providing information for and about our Aircraft Survivability Equipment, Smart & Brilliant Munitions, Air Defense Artillery and Fire Control systems.

The Web Site is beginning its design phase and will contain pertinent information and operational intelligence to sustain our Target Sensing Systems (i.e. Mission Data Sets, Kneeboard Cards, Tactics Techniques & Procedures, etc.). We encourage input from EWOs, Aviators, Maintenance personnel, Logisticians and anyone who is involved in the use and sustainment of Army Target Sensing Systems. Your input will be given serious consideration, so take this opportunity to make a difference and mail, e-mail or fax your contribution to us (addresses and telephone numbers are on page 15). In this and future issues of the Bulletin, you will see articles detailing the development of the Multi-Service Electronic Combat Web.



CECOM LARs (cont.)

During the two-week course of instruction on ASE and EW logistics, maintenance, training, and operational subjects, classroom instructors emphasize that the CECOM LARs are usually associated with deployed Aviation Brigades (Separate Battalions) and are often available to provide key information and assistance to the unit EWO. Each year, approximately twelve ASE/EW Officer Courses are conducted with over 250 graduates sent back to their units qualified with the knowledge and skills to perform the critical tasks associated with being the unit EWO.

The unit EWO is a technical advisor to the commander, staff, and aircrews on all matters dealing with ASE and EW. One of the challenges for the EWO upon completing the ASE/EWO Course is to return to the unit and ensure that ASE and EW logistics, maintenance, training, and operational requirements are achieved to contribute to unit readiness and enhance Warfighter skills. Again, an important resource in making these activities happen is the local CECOM LAR. The growing importance of ASE and EW systems and their proper performance and programming status have become essential elements of unit readiness and critical for fighting on the digitized battlefield.

Another resource, available to support the EWO, taught by the classroom instructor during the ASE/EWO Course, is the Army Reprogramming Analysis Team (ARAT). ARAT is a multi-service initiative that constantly supports Warfighters, combat developers, and materiel developers by identifying and reporting changes in worldwide EW signature information and emerging threats that may require the rapid reprogramming of ASE systems on Army aircraft. The goal of ARAT is to provide an Intelligence and Communications Infrastructure to support the Warfighter. ARAT operations provide accurate identification of threats, distributes reprogramming information, and provides access for actual reprogramming of ASE systems on Army aircraft. The ARAT can assist in the EWO's critical task of recommending timely and accurate reprogramming to the Commander.

The local CECOM LAR can also help make the ARAT "happen" at the unit. Specifically, the LAR can help the EWOs obtain the Memory Loader Verifier Kit to aid in downloading of the current Mission Data Sets (MDS) as the first step in the reprogramming of ASE systems on Army aircraft. The kit, consisting of software and interface cable, provides the capability to download parametric changes from the Multi-Service Electronic Combat Bulletin Board System (MSECBBS) and upload these changes to ASE systems on Army aircraft. With access to an accredited computer and STU-III capability, the unit EWO can be a full team member of ARAT. The EWO can make full use of LAR assistance to ensure that the technical linkages are in place necessary to optimize the resources and benefits of the ARAT.

The successful EW Officer makes full use of the network of logistics, maintenance, training, and ARAT support available. The local CECOM LAR continues to be a significant resource to help in the field.

(Written by CW4 Joseph Smith, CW2 George Synder, and Mr. Bob Wynkoop instructors for the Aircraft Survivability Equipment/Electronic Warfare Officer Course (2C-ASIH3) at the U.S. Army Aviation School, Fort Rucker, Alabama)

Editor's Note: See Page 14 for a current listing of CECOM Logistics Readiness Center (LRC) LARs worldwide.

ATTENTION FORT RUCKER AVIATORS

Dr. Mike Cupples is the CECOM Engineering and Technical Liaison to Fort Rucker and can serve as a POC on Aviation logistics and maintenance matters. You can contact Dr. Cupples at (334)255-9238/3271 ext. 150 (DSN 558) Fax (334)255-1008

The R²CIL: Enabler of Reprogramming Information Superiority

" . . . information superiority: the capability to collect, process and disseminate an uninterrupted flow of information . . ." – Army Vision 2010

The staff of the ARAT Rapid Reprogramming Communications Infrastructure Laboratory (R^2CIL) is dedicated to providing superior customer service and support to the Warfighter. We, as members of this staff, strongly believe that our top priority is to meet the reprogramming needs of the soldier in the field by providing uninterrupted communication to aid in the collecting, processing and dissemination of reprogramming information. This article is designed to introduce, to our customers, the R^2CIL team and services that directly support the Army reprogramming community. By letting you know who we are and what we do, we can better attain the goal of providing a personal, customer-oriented approach to serving your reprogramming requirements. The R^2CIL's main capability is to offer the Warfighter access to the ARAT. Additionally, the ARAT routers and servers provide access to a classified Wide Area Network called the Secure Internet Protocol Router Network (SIPRNET). The SIPRNET offers the Warfighter a passageway to numerous collateral informational resources and services. For the Warfighter who does not have a direct SIPRNET connection, the R^2CIL is your pathway to these various data locations.

The R^2CIL is equipped with four STU-III secure dialup modems that enable the user connectivity at 14400 BPS. These STU-IIIs provide the Warfighter with an "on-ramp" to the secure information highway. Sites such as the Defense Information Systems Agency, the National Security Agency, Headquarters– Department of the Army, Headquarters– 3rd U.S. Army, U.S. Army Europe, the U.S. Army Counter Intelligence Center, and the Joint Military Intelligence College are available to the Warfighter via the R^2CIL. These locations are just a few examples of the commands, agencies and information resources available to the Warfighter through the SIPRNET. For SIPRNET registration information, refer to the previous "ARAT Bulletin" or contact the ARAT PO.

Two of the agencies accessible via SIPRNET

The R2CIL also enables those Warfighters, who have yet to register with the ARAT-PO, access to our unclassified ARAT World Wide Web (WWW) server. You can access this server at:

http:arat.iew.sed.monmouth.army.mil

Led by Mr. Kenneth Kragh from the ARAT-PO, the R^2CIL staff brings many years of government, military and commercial communications and software engineering experience to the table. Mr. Mike Crapanzano, Mr. Marc Demarest and Mr. Andrew Lombardo, all from Ilex Systems, Inc., provide daily staffing within the R^2CIL and are the lead engineers who directly interface with the ARAT community. Ms. Diann McConnell, EPS Inc., and Mr. Gary Conover and Mr. John McDaniel, both from Ilex Systems, provide off-site technical and non-technical support to R^2CIL operations.

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R2CIL (cont.)

If you have a question or problem with any technical aspect of the ARAT, contact any of the above staff members. The R^{2}CIL is operational from 0800 until 1700 (EST), Monday- Friday, and can be accessed via any of the methods listed below.

The ARAT Rapid Reprogramming Communications Infrastructure Laboratory			
Telephone:	#1	(908) 532-9395	DSN: 992-9395
	#2	(908) 532-9329	DSN: 992-9329
	#3	(908) 532-1337	DSN: 992-1337
	#4	(908) 427-6000	DSN: 987-6000*
	Or	(908) 530-7766	ext.: 317* or 387*
* Answering machine/voice mail option available at this number for after-hour messages			
Email:		**webmaster@arat.army.smil.mil**	
Fax Number (ARAT PO):		(908) 532-5238	DSN: 992-5238

To better assist our customers, the R^{2}CIL staff documents all support calls (using a Customer Service Request format) and tracks all problems until resolved. Requests will not be closed until a solution is found and the customer is notified. Our goal is to ensure all requests are resolved using a uniform quality approach. The information gained from the requests will be used to create future ARAT support documentation.

Realizing the potential user growth within the Army and Multi-Service Reprogramming Community, the R^{2}CIL staff is introducing and implementing new support tools and procedures to enhance our current quality service standards. These tools and processes will help in delivering quality support, documentation and system reliability in a consistent user-friendly approach.

Two of these new tools will be ARAT *Technical Tips* and *Technical Bulletins* to provide the customer with a technical reference library for quick instruction on documented solutions. The technical documentation will be written in a standardized format, and will be available both on the ARAT Web Page and through the ARAT PO (hard copy). The goal is to create user-friendly documentation that can be utilized by the Warfighter. This will enable the ARAT customer to establish a technical reference library that can be used for quick reference, instruction or as a training tool for new ARAT customers. The *Technical Tips* will be in a problem, solution, and instructional designed format. The *Technical Bulletins* will contain general information that will supply users with important technical documentation.

A major staff responsibility is the administration of the R^{2}CIL's servers and computers. If connectivity between the Warfighter and the R^{2}CIL can not be established and maintained, then we have failed our mission. Our goal is to provide the Warfighter with reliable and consistent connectivity to the R^{2}CIL Local Area Network and the ARAT Web sites (both classified and unclassified). To achieve this goal, the staff has enhanced and created internal administrative tools and procedures to ensure the Warfighter the reliability and functions of the ARAT Network. Although invisible to the Warfighter, the procedures will result in the prevention and rapid resolution of system problems.

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R2CIL (cont.)

As mentioned, the R^{2}CIL staff is currently instituting many new processes. As new processes are enabled, we will notify our customers of the enhancements. At the R^{2}CIL, we believe great ideas come from the field. We encourage you to contact us, using the enclosed survey, with any suggestions that may help us better serve you.

In the age of electronic communications media, conditions are ripe for the diminishing of the personal, one-on-one support relationship between service/product providers and their customers. The R^{2}CIL is making every effort to prevent this from happening by providing the best reliable communications possible and, if problems arise, rapid solutions to our customer- the Warfighter!

Written by: Mr. Michael Crapanzano, Ilex Systems, Inc.

RNLAF APACHE AN/APR-39A (V) 1s GET REPROGRAMMED

AH-64A APACHE

On 13 November 1996, 12 AH-64A Apache helicopters from the U.S. Army inventory were leased to the Royal Netherlands Air Force (RNLAF) (the helicopters will be used to conduct armed escort and reconnaissance missions alongside its sister squadrons of CH-47, BO-105, and Cougar helicopters). They were then flown to their new home base of Gilze-Rijen in the picturesque countryside of The Netherlands. During this period, 22 RNLAF pilots, maintenance and staff personnel of the RNLAF 301 Squadron were completing the Unit Training Program with the Combat Aviation Training Brigade, Ft. Hood, TX. Upon arrival in The Netherlands, the 301 Squadron commenced, on 20 January 1997, extensive follow-on training with their parent units to meet the limited initial operational capability set for 1 September 1997.

The AH-64As were delivered with the standard US Army Aircraft Survivability Equipment (ASE): the AN/ALQ-144A(V)3 Countermeasures Set (CMS), the AN/ALQ-136(V)5 Radio Frequency (RF) Countermeasures Set (CMS), the M-130 general purpose chaff dispenser and the AN/APR-39A(V)1 Radar Signal Detecting Set (RSDS). Of these systems, only the –39A(V)1 is readily, rapidly and easily reprogrammable.

From their experience with the F-16 and the AN/ALR-69 Radar Warning Receiver, the RNLAF determined, at the beginning of their Apache Program, that their RSDSs had to have the same flexibility for uploading new threat data. After detailed briefings and planning meetings in The Hague (The Netherlands), and at the Communications-Electronics Command Software Engineering Center (CECOM SEC), Ft. Monmouth, NJ, a combined plan on how the US Army was going to support RNLAF requirements was mutually agreed upon. The resulting support largely mirrors the US Army process used to install new Mission Data Sets (MDS) into their own AN/APR-39A(V)1 RSDS. The current U.S. methodology is to establish the MDS on the Multi-Service Electronic Combat Bulletin Board System (MSECBBS) managed out of Eglin AFB, FL.

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RNLAF APACHE (cont.)

The using unit downloads the appropriate MDS and uploads it to the RSDS using a PC or laptop. Connection is accomplished with an inexpensive RS-485 Memory Loader Verifier (MLV) cable (supplied by the ARAT-PO) direct to the RSDS processor's J3 connector. Upload and verification are completed in approximately two minutes. The only difference between the U.S. Army and RNLAF processes is that RNLAF MDSs are sent via a separate secure electronic medium and are not downloadable from the MSECBBS.

UPLOADING MDS TO AN APACHE'S AN/APR-39A(V)1

To prove the concept of this 'international' infrastructure, the Army Reprogramming Analysis Team - Threat Analysis (ARAT-TA) at Eglin AFB developed an unclassified MDS for transmission and upload to a RNLAF RSDS. On the planned date of 2 December 1996, this unclassified MDS (MDS 513) was transmitted via secure means to the RNLAF Directorate of Operations, Air Operations Office for Electronic Warfare, in The Hague. Major Bart Hoitink, RNLAF, downloaded the MDS 513 file and drove to Gilze-Rijen where he successfully uploaded MDS 513 into an Apache's RSDS; the ARAT-TA was notified of the successful test.

With this hurdle cleared, the ARAT-TA and CECOM SEC team began building and testing the RNLAF's first classified MDS. It was built specifically to meet domestic RNLAF training requirements. After joint concurrence on the emitters to be loaded, emitter priority, and symbology selection, final parametric determination was completed 18 February 1997. This first classified MDS would permit the 301 Squadron's (the "Redskins") two Apache flights ("Diablo" and "Geronimo") to fly training missions where they would be illuminated by emitters normally associated with weapon systems. The aviators would be able to see the capabilities and limitations of this specific part of the ASE suite. On the planned date of 20 February 1997, the RNLAF's first classified MDS (MDS 650) was securely transmitted to the Directorate of Operations.

In a repeat of MDS 513, Major Hoitink downloaded the MDS 650 file and proceeded on 21 February to Gilze-Rijen for upload to an Apache's RSDS. With this successfully completed a two person engineering team (one from CECOM SEC and the other from ARAT-TA) left for The Netherlands to complete the next phase of the support.

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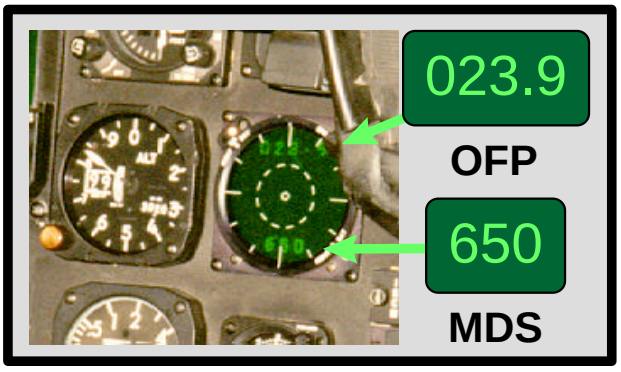
RNLAF APACHE (cont.)

During the week of 24-28 February 1997, the U.S. team completed briefings to the RNLAF Apache 'drivers', the maintenance personnel and representatives from the Directorate of Operations. Topics included RSDS programming, capabilities, limitations and user operation, RSDS installation anomalies, RSDS operations with MDS 650 installed (symbology expected from both programmed and unprogrammed), and the complementary interrelationship with the other onboard ASE. Originally configured with MDS 034 on delivery, the team verified the successful upload overwrite with MDS 650 in the RSDS.

Two key points of this entire uploading process were the simplicity and the low cost. To provide the RNLAF Apaches with MDS upload flexibility, Major Hoitink secured the use of an 'old' Toshiba 386 laptop that was unceremoniously on its way to their property disposal. The laptop uses the RS-485 MLV cable (developed by the ARAT-PO with an approximate cost of $200.00) to upload the MDS. The laptop was also able to expand the compressed file to provide the additional files needed by the EWOs and aviators:



IP-1150A DISPLAY OF OFP VERSION AND MDS NUMBER

the kneeboard sheet, the pertinent notes, and the kneeboard pictorial depicting the specific MDS with the programmed emitters and associated symbology.

The end result was an on-time joint success. Only 20 days after receiving their new aircraft and ASE, the RNLAF demonstrated a complete AN/APR-39A(V)1 rapid reprogramming capability for its Apaches.

AN/APR-39A(V)1 REPROGRAMMING TOOLS

Other near term requirements from the RNLAF include the building and testing of MDSs for use on specific electronic warfare training ranges and the delivery of a geo-tailored MDS to be delivered at the same time as the initial operational capability set for September 1997.

The Commanding Officer of 301 Squadron, Major Theo Ten Haaf and his fellow aviators expressed their confidence in the CECOM SEC/ARAT-TA team's capabilities. With this rapid reprogramming support, the 301 Squadron can quickly install the correct theater-specific, geo-tailored MDS to operate as an integral part of the Royal Netherlands Army's 11th Airmobile Brigade.

Written by Pete McGrew ARAT-TA(SRI) and Major Bart Hoitink, RNLAF

World Wide Web (WWW) Update

The ARAT WWW Homepage on the Secure Internet Protocol Router Network (SIPRNET) is presently being redesigned and renamed. With guidance from the ARAT-PO, feedback from the reprogramming community, and ARAT expertise, a new hierarchy is in development that provides an intuitive web site, aimed at allowing the Warfighter to easily access and download information.

Because the Air Force and Navy are now an integral part of the new architecture, the site will be known as the Multi-Service Electronic Combat (MSEC) Web Site. Users will enter the site at a multi-service home page and select which Service they want. From there, they will go to that Service's respective home page and further select from more options. Within the Army portion, choices include:

ARAT Information

- **Community**
- **Bulletins**
- **Documentation**
- **Terminology**

Mission Data Sets

- **Telnet to MSECBBS**
- **FTP to MSECBBS**

Multi-Service and Army Exercise Activities

- **Proud Byte**
- **Neptune Byte**
- **Brave Byte**
- **Serene Byte**

Target Sensing Systems (TSS)

- **Information on various TSS**

Threat Message Traffic

- **System Impact**
- **Problem Reports**
- **Reprogramming Impact**
- **Unit Load**
- **Operational Change Requests**

Emphasis is being placed on making it easier to locate and download information quickly. To aid with this, the user will generally have more than one path to the desired information. Additionally, two versions of the site will be built simultaneously. One will be graphic intensive, and another will be text-only. The text-only version will allow users faster access to data without long delays caused by loading graphics.

The MSEC Web Site at Eglin AFB is projected to be online by the end of FY '97. During the interim, the present ARAT web site will remain on-line and updated until the new site is available. To visit the unclassified site on the Internet, go to:

http://arat.iew.sed.monmouth.army.mil

or the classified site on the SIPRNET at:

http://www.arat.army.smil.mil

Suggestions, as always, are welcome from users in the field and can be sent via the survey enclosed in this issue or by e-mail to:

SIPRNET
webmaster@arat.army.smil.mil

Internet
webmaster@comanche.iew.sed.monmouth.army.mil

For more information, contact Mr. Ken Kragh (908-532-6003 [DSN 992-6003]) or Messrs. Marc C. Demarest and Mike Crapanzano (908-532-9395 [DSN 992-9395]).

Written by Mr. Marc C. Demarest, Ilex Systems, Inc.

GETTING THE WORD- STU-IIIs AND YOU

After talking with several U.S. Army Electronic Warfare Officers (EWOs) about their ability to access the Multi-Service Electronic Combat Bulletin Board System (MSECBBS), there seems to be a central theme: "I cannot get access, because I don't have a STU-III or an accredited PC. This article will provide information on ordering STU-IIIs, turning in inoperable ones for replacement, and attaining Crypto Ignition Keys (CIKs), with the goal of empowering EWOs with the ability to provide Battlefield Sustainment support to their Commander.

Your first action should be to check with your Commander and/or unit (Battalion or above) S3. They should have a STU-III that can be used with an accredited PC to connect to the MSECBBS either directly or through the Secure Internet Protocol Router Network (SIPRNET) [refer to the February 1997 "ARAT Bulletin" issue for more information on SIPRNET]. While that may initially be an inconvenience for both parties, it may provide the necessary visibility and priority for you to attain your own resources. If your Commander/S3 do not understand or have an appreciation for how the EWO/ARAT team can benefit the unit, provide them with a briefing. Mr. Joseph Ingrao, the ARAT Project Officer, is willing to travel to brief Commanders/S3s on the ARAT process, and how their command's Battlefield Readiness can be improved by providing EWOs with the proper command emphasis to get the job done.

As far as accrediting a PC for SECRET Collateral system access is concerned, the process is normally handled by the unit's Information Management Officer/Staff (IMO), usually located at the Brigade level. EWOs should check with their IMO concerning their unit's computer accreditation procedures.

Purchasing a STU-III

STU-IIIs have National Stock Numbers (NSN) and are considered Common Table of Allowance (CTA) 50-909 items. Your Commander can authorize any number of STUs, based upon mission requirements, as long as the unit can afford to purchase them (using OMA funds). The chart on the next page presents the STU-III models that are available from the National Security Agency's (NSA) Contracts MDA904-96-D-0024 and –0026.

If you do not currently have a STU-III, you can order one by submitting a DD Form 448, Military Interdepartmental Purchase Request (MIPR), through your S4/Supply channels, to:

Commander, USACCSLA
ATTN: SELCL-EP-A (Mr. Ron Geller)
Fort Huachuca, AZ 85613-7090

The MIPR must include the following information, as a minimum: Unit DODAAC, full shipping location address specifying building number and/or room number, and Point of Contact (POC) name with both DSN and Commercial Phone Numbers and Fax Numbers. MIPRs must be mailed to the above address, however, advanced copies may be faxed to Mr. Geller at DSN 879-6143, CML (520) 538-6143. Mr. Geller can be reached at DSN 879-8335, CML (520) 539-8335 for further information.

Most EWOs only require a standard model; however, if you are in a tactical unit and desire to purchase a model that can be used while deployed in the field, contact your unit Signal Officer. He or she will tell you which STU would be best suited to be used with your organic tactical signal equipment.

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STU-III MODELS ARE AVAILABLE FROM THE NATIONAL SECURITY AGENCY

Motorola Model SECTEL 1500, Type 1, Universal Single Line, 2.4-9.6 Voice/Data, with SACS, STUN20S, NSN 5810-01-362-0606, Price $1447 (standard model)

Motorola Model SECTEL MMT 1500, Type 1, Universal Single Line, 2/4 wire, 2.4-9.6 Voice/Data, ACK/NAK, with SACS, STUA43, NSN 5810-01-375-0514, Price $1945 (has different interface allowing 4 wire connectivity like DNVT/DSVT and can connect to tactical systems like MSE)

Motorola SECTEL MMT 1500 DNVT Terminal, 2/4 wire, 2.4-9.6 Voice/Data, STUA43A, NSN 5810-01-408-0224, Price $2915 (for tactical use with MSE and radio/satellite systems)

Motorola SECTEL 1500 STU-III/A, Type 1, Universal Single Line, 2.4-9.6 Voice/Data, STUB26, NSN 5810-01-339-0879, Price $3695 (standard model with ability to interface with NATO STU-IIB models)

Motorola STU-III DNVT Module, NSN 5810-01-395-4259, Price $980 (adapts a standard or MMT model STU-III for tactical use similar to the MMT DNVT model above)

Motorola STU-III/DNVT Interworking Function (IWF), NSN 5810-01-395-4258, Price $8100 (for tactical use; allows digital to analog conversions in addition to other radio/satellite and MSE interfaces)

Lucent Technologies (AT&T) Model 1100, Type 1, Universal Single Line, 2.4-9.6 Voice/Data, with SACS, STUN10, NSN 5810-01-360-3895, Price $1298 (standard model)

Lucent Technologies (AT&T) Model 1150, Type 1, Universal Multi-Line (5), 2.4-9.6 Voice/Data, with SACS, STUP10A, NSN 5810-01-360-3897, Price $1375 (standard model with 5 lines vice 1)

Lucent Technologies (AT&T) Merlin Model 1100M, Type 1, Universal Single Line, with SACS, STUA15, NSN 5810-01-362-8619, Price $2295 (digital and analog capability)

Lucent Technologies (AT&T) Model 1910, Enhanced Secure Data Device, Type 1, Universal Single Line, 2.4-14.4 Data only, with SACS, STUB12, NSN 5810-01-362-8618, Price $1995 (data only model at higher transfer rate, includes V.42 error detection and V.42bis data compression capability)

Portable Uninterruptable Power (PUP) Tactical Suitcase, estimated price $2200 (for tactical use – connects a STU-III [not included] to a battery power supply and is portable inside a rugged transit case)

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STU-IIIs AND YOU (cont.)

A working STU-III is an essential tool for the successful EWO

Replacing Broken STU-IIIs

STUs that are no longer working properly should be turned-in for repair/replacement in accordance with the following chart:

CONUS, still under 2 year warranty	Contact vendor
CONUS, warranty expired	Turn-in through supply channels to Depot for repair/replacement
OCONUS regardless of warranty	Turn-in through supply channels to Depot for repair/replacement. Depot will contact vendor if under warranty

Vendors' service representatives can be reached at:

Lucent Technologies (AT&T) – 1-800-243-7883
Motorola – 1-800-922-7883

To turn-in a STU-III to the Depot, you must submit it with a DA Form 2765-1, "Request for Issue or Turn-in". The STU must have been **zeroized**(!), and you must include the power supply unit and cord, and manual/book (or a shortage list if any items are missing). Contact your unit's supply personnel/S-4 staff for further details on the forms and procedures. The Depot's mailing address is:

Tobyhanna Army Depot
COMSEC Support
W81U11, Bldg. 73
Tobyhanna, PA 18466-5110

Then mail/fax a copy of the DA Form 2765-1, with a completed DD Form 1348-6 (Materiel Request) indicating the turn-in document number and the old STU serial number, to Mr. Geller in the CCSLA office, Ft. Huachuca. A like make/model will be shipped back to you as soon as one becomes available (most likely, it will not be the same phone). There is no cost associated with this process, however, there may be a lengthy time period before you receive a replacement.

Note: If you turn-in an old 2.4 kbps model, you will get a similar 2.4 model in return. To upgrade to a 9.6 or 14.4 kbps model, you will need to purchase it separately using the procedures outlined above.

Ordering CIKs

Finally, to order the CIKs for STU-IIIs, check with your COMSEC Officer/Custodian. Master CIKs are ordered using a Form L3769, which is then faxed to DSN 238-3172 or mailed to the EKMS in Finksburg, MD (the address is on the form). For CONUS users, turnaround via FEDEX is two days; however, OCONUS users require Defense Courier Service, which takes much longer. Blank CIKs are issued to users after the phone and CIK are programmed for use.

Written by Mr. Andrew Lombardo, Ilex Systems, Inc.

Notes to the Field

ARAT Accounts 101

Over the past few months, there has been confusion about the ARAT network accounts at Eglin AFB, FL, and at Fort Monmouth, NJ. This article aims to clear up any questions that may exist.

As you may be aware, the ARAT-TA, located at Eglin AFB, provides analysis of Electronic Intelligence and coordinates EWO notification of threat changes/impacts via messages like the System Impact Message and Reprogramming Impact Message. The ARAT-TA is also responsible for posting the final Mission Data Set (MDS) software package onto the Multi-Service Electronic Combat (MSEC) Bulletin Board System (BBS). A Joint Service administration team maintains the MSECBBS, and Mr. Robert Hankins is the Army representative to that team.

To obtain an account on the MSECBBS, first contact Mr. Hankins (DSN 872-2166). You will then be required to send a memorandum, as outlined in the example provided in the February 1997 issue of the "ARAT Bulletin", to the administration team, along with your security clearance information. If you do not have this issue of the "ARAT Bulletin", contact the ARAT-PO.

The ARAT at Fort Monmouth consists of two entities: the ARAT Project Office (PO) and the ARAT Software Engineering (SE). The ARAT-PO provides oversight to the entire ARAT, including tasks supporting ARAT Wide Area Network implementation. Specific automation activities include communications connectivity for access to the MSECBBS, MSEC web sites, and the Secure Internet Protocol Router Network (SIPRNET), as well as World Wide Web (WWW) development and maintenance support. The ARAT-SE performs the actual MDS software reprogramming.

The ARAT-PO also supports EWOs with network accounts, primarily to provide an alternate communications path to the MSECBBS. The Fort Monmouth ARAT account also allows EWOs to gain access to SIPRNET and the INTELink-S WWW. Through SIPRNET (primarily via a web browser interface), a user can access the MSECBBS and download the MDS stored there, and view data and intelligence reports from other agencies. The ARAT-PO provides a SIPRNET email account so EWOs can contact any user on SIPRNET.

The purpose of accounts on either system is to enable the electronic exchange of data amongst ARAT Community members and to facilitate access to the critical MDS located on the MSECBBS. The ARAT-PO is providing an alternate communications path to the MSECBBS through the ARAT SIPRNET server at Ft. Monmouth. The bottom line is the EWO now has two methods of accessing MDSs: a) STU-III direct dial-in to the MSECBBS, or b) MSECBBS access via STU-III dial-in to the ARAT SIPRNET server.

Happy Anniversary

Special "Happy Anniversary" wishes go out to our reprogramming colleagues in the U.S. Air Force. This year marks the 50th Anniversary of the Air Force, a service that has been at the forefront of many of today's battlespace technologies and concepts, including reprogramming, as we know it.

As the Air Force enters its next 50 years, and we, as members of a total force, enter the next century, the ARAT looks forward to the continued cooperation, good will, and synergy the Air Force-Army reprogramming team has enjoyed in the past.

CHANGES!!!

The Fort Monmouth Area Code (this affects the ARAT-PO and ARAT-SE) will change effective 6/1/1997. The new Area Code will be: 732. The 908 Area Code will remain valid until 12/6/1997.

Notes to the Field

Need Help?

The following is a list (as of April 1997) of CECOM Logistics Readiness Center (LRC) Avionics Logistics Assistance Representatives. See cover story for more information on how LARs can support your Aviation needs.

CONUS

Fort Bliss

Fred Gagne	978-8938

Fort Drum

Tom Purzycki	341-7462

Fort Bragg

Steve Borman	236-4064/6949
Jim Jeffreys	236-1502
Laurie Klevan	236-6382
Deb Peterson	236-6949/6382

Fort Hood

Ben Buhay	738-5227
Charles Carders	737-6316
George Eder	738-1989
Danny Jordan	737-6513

Fort Campbell

Bill Medley	635-2101
Ed Ward	635-2101
Bill Yanchyshyn	635-2101

Fort Monmouth

Lou Gumbinger	992-5327
Stan Marcinkiewicz	992-5327
Frank Minakowski	992-5327

Fort Carson

John Fontenot	691-5213

Fort McPherson

Bill Cooper	367-6725

Fort Stewart/Hunter AAF

Ed Perez	971-5421
Russ Slate	971-5802

OCONUS

Alaska

Joe McCoubrey	315-353-2322

Hawaii

Bob Jordan	315-456-2703

Panama

Larry Ogburn	313-284-6504/4919

Germany

Roland Burrows	Wiesbaden	314-337-6884
John Ham	Illesheim	314-467-4769
Pete Helfrich	Hanau	314-322-7788
Buck Ryan	Sandhofen	314-382-5244
Ike Syx	Katterbach	314-467-2616

Korea

Shed Dawson	315-721-2044
Tom Demoss	315-723-5966
John Moran	315-732-5447
Tom Tkach	315-753-6015

For Your Information

Coming Events

AFCEA TECHNET '97	Washington, DC	17-19 June 1997
AUSA Annual Meeting	Washington, DC	13-15 October 1997
AOC International EW Technical Symposium and Convention	Washington, DC	26-30 October 1997

The ARAT Community Key Points of Contact

HQDA, DAMO-FDI	Mr. Rick Simon	DSN: 227-6527	FAX: 223-5336
HQ, TRADOC	Mr. Bob Miner minerr@emh10.monroe.army.mil	DSN: 680-2664	FAX: 680-2947
HQ, INSCOM	COL Halbert Stevens	DSN: 235-1791	FAX: 656-1003
ARAT-PO	Mr. Joseph Ingrao ingrao@doim6.monmouth.army.mil	DSN: 992-1337	FAX: 992-5238
	Mr. Ken Kragh kragh@doim6.monmouth.army.mil	DSN: 992-6003	FAX: 992-5238
ARAT-TA	LTC Karen McManus kemcman@vulcan.belvoir.army.mil	DSN: 235-1036	FAX: 703-806-1003
	Mr. Norm Svarrer svarrer@wg53.eglin.af.mil	DSN: 872-8899	FAX: 872-8213(C) /4268(U)
ARAT-SE (CECOM)	Mr. Jeff Boldridge boldridj@doim6.monmouth.army.mil	DSN: 992-8224	FAX: 992-8287
ARAT-SE (MICOM)	Mr. Gary Clayton clayton-rd-ba@redstone-emh2.army.mil	DSN: 746-0755	FAX: 746-0757
ARAT-SC (FT. BLISS)	Mr. Ernesto Martinez martinem@bliss-emh1.army.mil	DSN: 978-5595	FAX: 978-2773
ARAT-SC (FT. RUCKER)	Mr. George Hall hallg@rucker-emh3.army.mil	DSN: 558-9334	FAX: 558-1165
AFIWC (KELLY AFB) (Army Flagging)	Mr. Carl Brunner cbrunner@sdd.sri.com	DSN: 969-2021	FAX: (210) 977- 2145

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ARAT Bulletin

The Army Reprogramming Analysis Team Bulletin is published by CECOM RDEC SEC A/IEW Division for administrative or operational use by U.S. Government Agencies only.

ARAT QUESTIONNAIRE

Dear ARAT Bulletin Reader:

Please take a few minutes to complete the following survey, the purpose of which is to improve the "ARAT Bulletin", ARAT technical support, and the MultiService Electronic Combat (MSEC) Web Site. Please be assured that your response will be treated with complete confidentiality and your participation is strictly voluntary. If you have any questions or need information to complete this survey, please contact Mr. Sam Johnson, Ilex Systems, Inc., at 908-530-7766 (extension 342) or the ARAT Project Office at DSN 987-6000. Thank you for your time and input.

(Responses for Items 1-6 are OPTIONAL)

1. Name: _____
2. Rank: _____
3. Unit: _____
4. Mailing Address:_____
   _____
5. E-mail:
   _____
6. Phone: DSN: _____
   Commercial: _____

Indicate your opinion on the statements in Items 7-11.

	Strongly Agree	**Agree**	**Neutral**	**Disagree**	**Strongly Disagree**
7. "ARAT Bulletin" articles are informative and interesting.					
8. I am satisfied with the "ARAT Bulletin's" format and content.					
9. The "ARAT Bulletin" is published frequently enough.					
10. My Commander and principal staff members read the "ARAT Bulletin".					

11. What type(s) of articles or information would you like to read in the "ARAT Bulletin"?

_____

_____

12. What type(s) of articles or information would you not like to read in the "ARAT Bulletin"?

_____

_____

13. Have you visited the MSEC Web Site @ http://arat.iew.sed.monmouth.army.mil on the Internet?
    YES NO (circle one)

14. Have you visited the MSEC Web Site @ http://arat.army.smil.mil on the SIPRNET? YES NO (circle one)

15. What information, presently on either Web Site, do you find useful?

_____

_____

16. What information, presently on either Web Site, do you not find useful?

_____

_____

17. Are images causing problems with your throughput rate? YES NO (circle one)

18. Other feedback on the MSEC Web Sites:

_____

_____

_____

19. Do you plan to join the ARAT account list? NO Why?_____
YES When? _____

20. What type of automation/hardware system do you have (please mark with an "X")?

486PC		Pentium PC		Pentium Pro PC		Sun Sparc Workstation	
Other: (Please indicate):							

21. What type(s) of operating system do you use? Please include the version number?

	Version		Version		Version
MS Windows 3.x		MS Windows 95		MS Windows NT	
Sun Solaris 2.x		Sun OS (Solaris 1.x)		IBM OS/2	
Other:					

22. What type(s) of software do you use (Please include vendor and version number)?

	Vendor	Version		Vendor	Version
TCP/IP			Web Browser		
PPP			Telnet		
FTP			Procomm		
WGM			Other		

23. What type(s) of STU-III phone systems do you use?

	Model Number	Transmission Rate		Model Number	Transmission Rate
AT&T			GE		
Motorola			RCA		
Other: (Indicate Vendor)					

24: Comments:

_____

_____

_____

_____

_____